

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Susan L. Lindquist et al. Art Unit : 1633
Serial No. : 10/826,157 Examiner : Maria Marvich
Filed : April 16, 2004 Conf. No. : 8571
Title : YEAST ECTOPICALLY EXPRESSING ABNORMALLY PROCESSED
 PROTEINS AND USES THEREFOR

Mail Stop Amendment

Commissioner for Patents
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INFORMATION DISCLOSURE STATEMENT

Copies of the non-patent references listed on the attached form PTO-1449 are enclosed.
A copy of an International Search Report (dated November 3, 2004) in a counterpart application is also enclosed.

This statement is being filed before the receipt of a first Office Action on the merits.
Please apply any charges or credits to Deposit Account No. 06-1050, referencing Attorney
Docket No. 17481-003001.

Respectfully submitted,

Date: March 13, 2007


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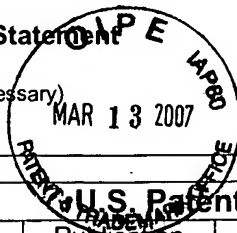
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17481-003001	Application No. 10/826,157
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Susan L. Lindquist et al.	
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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	2001/0006793	07/05/2001	Bjornsti et al.			
	AB	2002/0187157	12/12/2002	Jensen et al.			
	AC	2003/0022243	01/30/2003	Kondejewski et al.			
	AD	2005/0009019	01/13/2005	Van Lueven et al.			
	AE	5,547,841	08/20/1996	Marotta et al.			
	AF	5,643,562	07/01/1997	Kisilevsky et al.			
	AG	5,652,092	07/29/1997	Vitek et al.			
	AH	5,686,288	11/11/1997	MacDonald et al.			
	AI	5,693,757	12/02/1997	MacDonald et al.			
	AJ	6,093,549	07/25/2000	Ross et al.			
	AK	7,045,290	05/16/2006	Lindquist et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL	WO 91/04339	04/04/1991	WIPO				
	AM	WO 91/05044	04/18/1991	WIPO				
	AN	WO 99/29891	06/17/1999	WIPO				
	AO	WO 01/23412	04/05/2001	WIPO				
	AP	WO 05/005640	01/20/2005	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	Adams et al., "Methods in Yeast Genetics," A Cold Spring Harbor Laboratory Course Manual, 1997.
	AR	Borkovich et al., "hsp82 is an essential protein that is required in higher concentrations for growth of cells at higher temperatures," Mol Cell Biol. 9:3919-3930, 1989.
	AS	Boucherie et al., "Differential synthesis of glyceraldehyde-3-phosphate dehydrogenase polypeptides in stressed yeast cells," FEMS Microbiol Lett., 125:127-133, 1995.
	AT	Burke et al., "Huntingtin and DRPLA proteins selectively interact with the enzyme GAPDH," Nat Med. 2:347-350, 1996.

Examiner Signature	Date Considered
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	AU	Chai et al., "Analysis of the role of heat shock protein (Hsp) molecular chaperones in polyglutamine disease," J Neurosci., 19:10338-10347, 1999.
	AV	Chai et al., "Evidence for proteasome involvement in polyglutamine disease: localization to nuclear inclusions in SCA3/MJD and suppression of polyglutamine aggregation in vitro," Hum Mol Genet., 8:673-682, 1999.
	AW	Chen and Hochstrasser, "Biogenesis, structure and function of the yeast 20S proteasome," Embo J., 14:2620-2630, 1995.
	AX	Cummings et al., "Chaperone suppression of aggregation and altered subcellular proteasome localization imply protein misfolding in SCA1," Nat Genet., 19:148-154, 1998.
	AY	DeMarini et al., "The yeast SEN3 gene encodes a regulatory subunit of the 26S proteasome complex required for ubiquitin-dependent protein degradation in vivo," Mol Cell Biol., 15:6311-6321, 1995.
	AZ	Fearnley JM et al., <i>Brain</i> , 114:2283-2301, 1991.
	AAA	Gething, Guidebook to molecular chaperones and protein folding catalysts. Oxford University Press, 1997.
	ABB	Jana et al., "Polyglutamine length-dependent interaction of Hsp40 and Hsp70 family chaperones with truncated N-terminal huntingtin: their role in suppression of aggregation and cellular toxicity," Hum Mol Genet., 9(13):2009-2018, 2000.
	ACC	Kazantsev et al., "Insoluble detergent-resistant aggregates form between pathological and nonpathological lengths of polyglutamine in mammalian cells," Proc Natl Acad Sci U.S.A., 96: 11404-11409, 1999.
	ADD	Kimura et al., "Role of the protein chaperone YDJ1 in establishing Hsp90-mediated signal transduction pathways," Science, 268:1362-1365, 1995.
	AEE	Koo et al., "Amyloid diseases: Abnormal protein aggregation in neurodegeneration," PNAS 96:9989-9990, 1999.
	AFF	Krobitsch and Lindquist, "Aggregation of huntingtin in yeast varies with the length of the polyglutamine expansion and the expression of chaperone proteins," Proc Natl Acad Sci U.S.A., 97(4):1589-1594, 2000.
	AGG	Masison et al. "Prion-inducing domain of yeast Ure2p and protease resistance of Ure2p in prion-containing cells," Trends in Genetics, Elsevier Science Publishers, B.V. Amsterdam, NL, 12:14, 1996.
	AHH	Moore et al., "Triplet repeats form secondary structures that escape DNA repair in yeast," Proc. Natl. Acad. Sci. U.S.A., 96:1504-1509, 1999.
	AII	Muchowski et al., "Hsp70 and Hsp40 chaperones can inhibit self-assembly of polyglutamine proteins into amyloid-like fibrils," Proc. Natl. Acad. Sci. USA, 97:7841-7846, 2000.
	AJJ	Mumberg et al., "Regulatable promoters of Saccharomyces cerevisiae: comparison of transcriptional activity and their use for heterologous expression," Nucleic Acids Res. 22:5767-5768, 1994.
	AKK	Mumberg et al., "Yeast vectors for the controlled expression of heterologous proteins in different genetic backgrounds," Gene. 156:119-122, 1995.
	ALL	Nathan and Lindquist, "Mutational analysis of Hsp90 function: interactions with a steroid receptor and a protein kinase," Mol Cell Biol. 15:3917-3925, 1995.
	AMM	Nathan et al., "Identification of SSF1, CNS1, and HCH1 as multicopy suppressors of a Saccharomyces cerevisiae Hsp90 loss-of-function mutation," Proc. Natl. Acad. Sci. U.S.A. 96:1409-1414, 1999.

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	ANN	Neystat et al., "Analysis of Synphilin-1 and Synuclein Interactions by Yeast Two-Hybrid β -Galactosidase Liquid Assay," <i>Neuroscience Letters</i> , Vol. 325, 2002, pp. 119-123.
	AOO	Parsell and Lindquist, "The function of heat-shock proteins in stress tolerance: degradation and reactivation of damaged proteins," <i>Annu. Rev. Genet.</i> 27:437-496, 1993.
	APP	Parsell et al., "Protein disaggregation mediated by heat-shock protein Hsp104," <i>Nature</i> . 372:475-478, 1994.
	AQQ	Parsell et al., "Saccharomyces cerevisiae Hsp104 protein," <i>J. Biol. Chem.</i> 269(6):4480-4487, 1994.
	ARR	Petko et al., "Hsp26 is not required for growth at high temperatures, nor for thermotolerance, spore development, or germination," <i>Cell.</i> , 45:885-894, 1986.
	ASS	Saudou et al., "Huntingtin acts in the nucleus to induce apoptosis but death does not correlate with the formation of intranuclear inclusions," <i>Cell.</i> , 95:55-66, 1998.
	ATT	Schweitzer et al., "Destabilization of CAG trinucleotide repeat tracts by mismatch repair mutations in yeast," <i>Hum Mol Genet.</i> 6:349-355, 1997.
	AUU	Spillantini MG et al., <i>Nature</i> , 388:839-40, 1997.
	ASS	Stenoi et al., "Polyglutamine-expanded androgen receptors form aggregates that sequester heat shock proteins, proteasome components and SRC-1, and are suppressed by the HDJ-2 chaperone," <i>Hum Mol Genet.</i> , 8:731-741, 1999.
	AWW	Stone and Craig, "Self-regulation of 70-kilodalton heat shock proteins in <i>Saccharomyces cerevisiae</i> ," <i>Mol Cell Biol.</i> , 10:1622-1632, 1990.
	AXX	Tanaka et al., "Inducible Expression of Mutant α -Synuclein Decreases Proteasome Activity and Increases Sensitivity to Mitochondria-Dependent Apoptosis," <i>Human Molecular Genetics</i> , 2001, Vol. 10, No. 9, pp. 919-926.
	AYY	Temussi et al., "From Alzheimer's to Huntington: why is a structural understanding so difficult," <i>EMBO Journal</i> 22(3):355-361, 2003.
	AZZ	Tuite et al., "Maintenance and inheritance of yeast prions," <i>Trends in Genetics</i> , Elsevier Science Publishers, B.V. Amsterdam, NL, 12:467-471, 1996.
	AAAA	Vogel et al., "Heat-shock proteins Hsp104 and Hsp70 reactivate mRNA splicing after heat inactivation," <i>Current Biology</i> , 5:306-317, 1995.
	ABBB	Vonsattel et al., "Neuropathological classification of huntington's disease," <i>J Neuropathol Exp Neurol.</i> , 44:559-577, 1985

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